MODEL **GT1300PSS**

USER MANUAL

PNEUMATIC TORQUE WRENCH

TORQ® Fusion

INTRODUCTION

Thank you for choosing TORQ Fusion as your torque tool manufacturer. We understand that our customers have many options when selecting their equipment and we truly appreciate the opportunity to serve your bolting needs.

Our company firmly believes that the development of any product starts with first understanding the needs of our customers and apprehending the challenges they encounter with the equipment they currently use. The TORQ Fusion design team then tackles these challenges and implements innovative resolutions in the design it develops. Next we prototype and evaluate our designs gauging not only performance, but also robustness. Every one of our designs goes through an exhaustive life test taking into account every possible situation that might occur during normal operation. As our tools enter the production phase, each unit is calibrated throughout its operating range and our technical staff reviews each calibration certificate before signing off and releasing it.

Please take the time to review the rest of this manual, paying special attention to the safety instructions associated with your equipment.

If you have additional questions please feel free to contact your sales representative or the factory by email at **info@torqfusion.com**.

Thank you again for choosing TORQ Fusion!

TABLE OF CONTENTS

INTRODUCTION 3
TABLE OF CONTENTS 4
SAFETY 5
PPE – (Personal Protective Equipment) 5
WARRANTY 6
ABOUT THE TOOL 7
ABOUT THE FRL 9
INSTALLATION 11
OPERATING INSTRUCTIONS 12
REMOVING AND INSTALLING THE TOOL EXTENSION 13
REMOVING AND INSTALLING THE REACTION ARM 13
REMOVING AND INSTALLING THE OUTPUT DRIVE 15
INSTALLING THE IMPACT SOCKET 16
DETERMINING THE SET PRESSURE 17
LINEAR INTERPOLATION 18
ADJUSTING THE SET PRESSURE 19
TIGHTENING 20
LOOSENING 21
BEST PRACTICES 22
CARE AND MAINTENANCE 22
TORQUE TOOL 22
FRL - CLEANING THE FILTER 23
FRL - ADDING TOOL OIL 23
FRL – REPLACING THE BATTERY 24
TOOL CALIBRATION 25
TROUBLESHOOTING 26
TOOL SPECIFICATION 27
PARTS & ACCESSORIES 28
DIMENSIONS 28
GT1300PSS 28
FRL 29
TABLE OF FIGURES 30

SAFETY

Safety is our primary concern and we want to ensure that our customers enjoy the benefits of our tools while observing all appropriate safety measures. Our tools are designed to be operated by trained, skilled personnel.

Never disassemble or modify any portions of the tool or the FRL supplied by TORQ Fusion – doing so may result in personal injury and the product warranty to become void. Never strike or force any portion of the torque wrench or the FRL as this may cause damage to the equipment, create an unsafe situation and void the warranty.

Reading this manual in its entirety is mandatory prior to operating the equipment described in it. Additional training may be required by your company's training or safety advisor.

PPE – (Personal Protective Equipment)

Always wear protective eyewear when operating power tools or entering an industrial environment.

Always wear hearing protection when operating power tools or environmental conditions may exceed 85 dB(A) of noise.

Never place your hands or other body parts near the reaction arm or any moving component – avoid pinch points.

It is a good practice to also wear work gloves, a hard hat, steel toe shoes and any other protective equipment suitable for the task being performed. Please consult with your company's safety advisor for more information.

WARRANTY

TORQ Fusion LLC is proud to offer a **one year limited warranty** for your torque wrench and FRL assembly. We are confident in and stand behind all of the products we manufacture and sell.

TORQ Fusion LLC warrants this product against all material and workmanship defects for the duration specified above from the date of initial purchase. In the event that this product is found to be defective after being examined by TORQ Fusion LLC and in accordance with the terms specified in this section, the defective product will be repaired or replaced, at the discretion of TORQ Fusion LLC without cost to the end user.

The following list of reasons (investigated and assessed by TORQ Fusion LLC) will cause this warranty to become void and null in its entirety:

1. Any modifications, previous repairs or attempted repairs performed by parties other than TORQ Fusion LLC or factory authorized repair facilities.
2. Any visible marks or signs indicating the equipment has been abused or mishandled, other than normal wear of the equipment.
3. Improper maintenance of the equipment according to the instructions in this manual.

This warranty covers all the equipment supplied except:

1. Packaging materials
2. The output drive
3. The reaction arm
4. Consumables: batteries, lubricating oil, etc.

TORQ Fusion LLC shall in no event be found liable for any damages including personal or material, including loss of profits of any parties involved.

Please contact your sales representative or the factory directly with any questions you may have regarding this warranty.

ABOUT THE TOOL

The GT1300PSS is a single speed pneumatic torque wrench designed to output a maximum of 1300 ft-lbs (1,763 N-m) of continuous torque. The tool is based on a multi-vane pneumatic motor driving a high reduction multi-stage planetary gearbox.

When tightening or loosening fasteners requiring torque in the range offered by this tool, there are many other methods available: large breaker bars, manual torque multipliers, impact wrenches or hydraulic wrenches. Breaker bars and manual torque multipliers are the lowest cost option, but are labor intensive and some have questionable torque accuracy. Impact wrenches are relatively low cost, but have very poor torque accuracy and generate a large amount of vibration and noise – these factors may present serious health risks. Hydraulic wrenches are very expensive, move relatively slow and require heavy hydraulic pumps. Continuous torque pneumatic wrenches like this one offer a good balance of power, speed, ergonomics and cost.

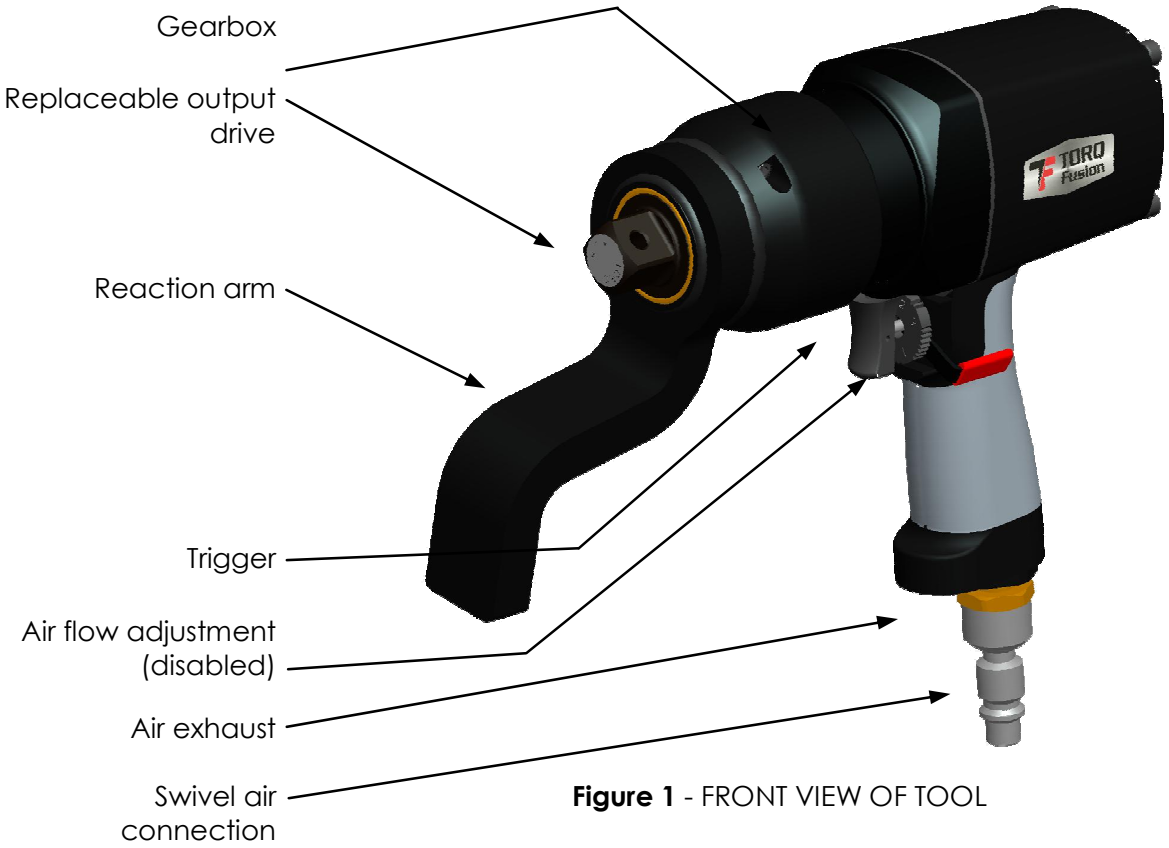

Figure 1 - FRONT VIEW OF TOOL

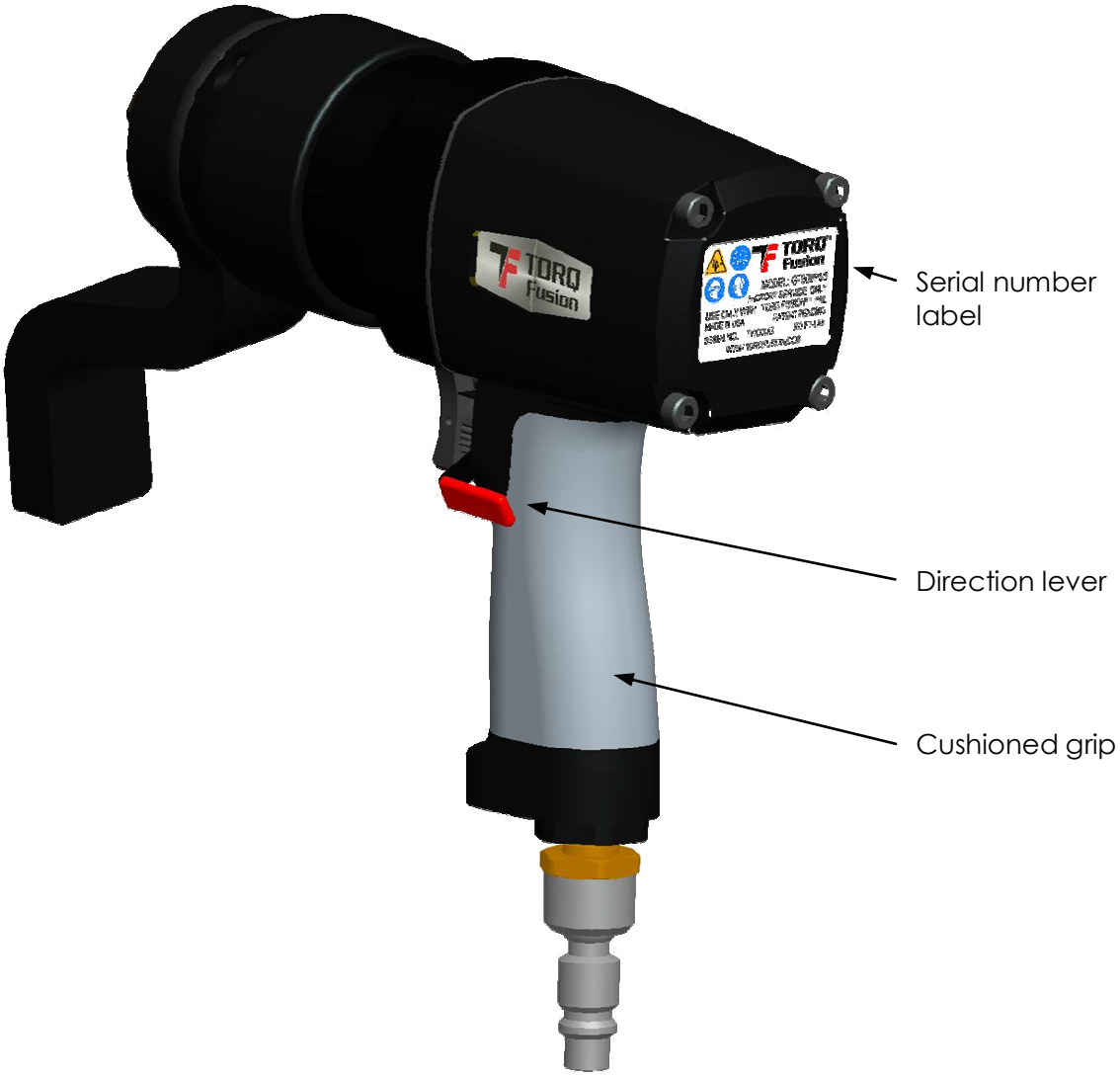

Figure 2 - BACK VIEW OF TOOL

ABOUT THE FRL

The rotary vane motor of the tool produces a torque output proportional to the air pressure it is supplied. In order to facilitate adjustment of the torque output of the tool we supply a designated FRL (Filter/Regulator/Lubricator) with each one.

To ensure that the torque output of this tool is as accurate as possible, our FRL features a precision grade regulator and digital pressure gauge. It is imperative that our tools only be operated with the FRL units supplied by TORQ Fusion and the serial number printed on the torque chart of the FRL matches the serial number printed on the back of the tool.

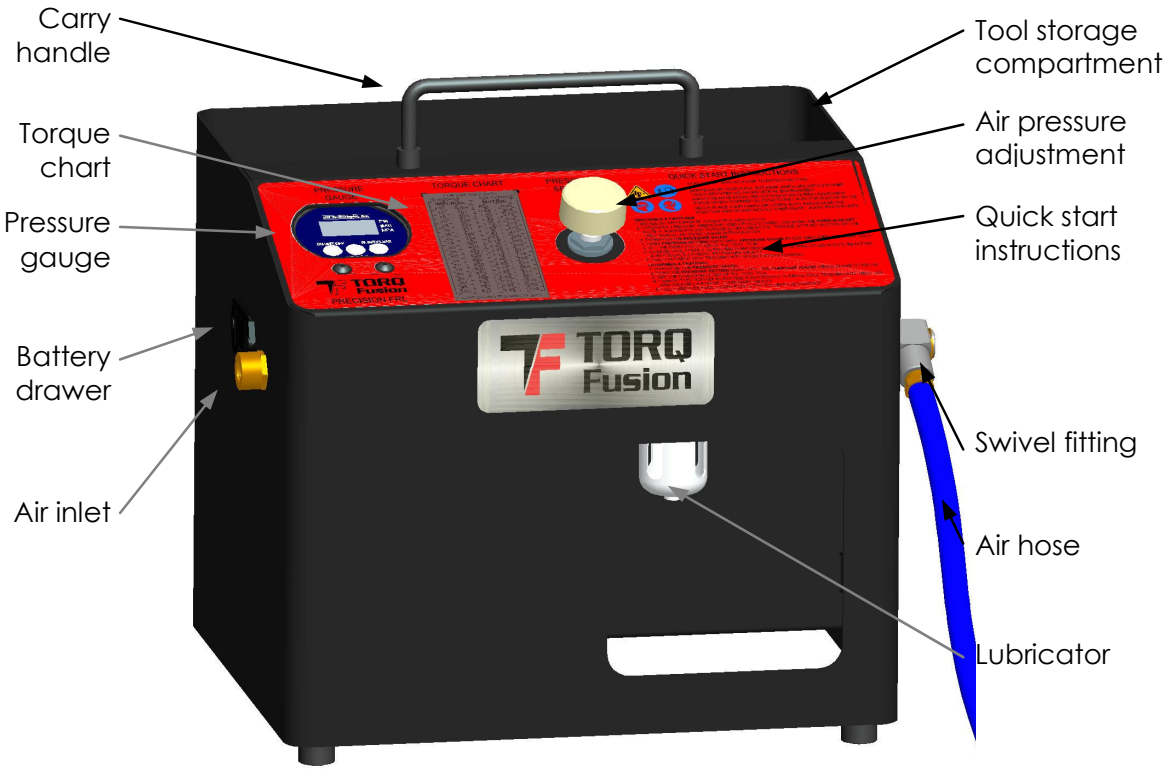

Figure 3 - FRONT VIEW OF FRL

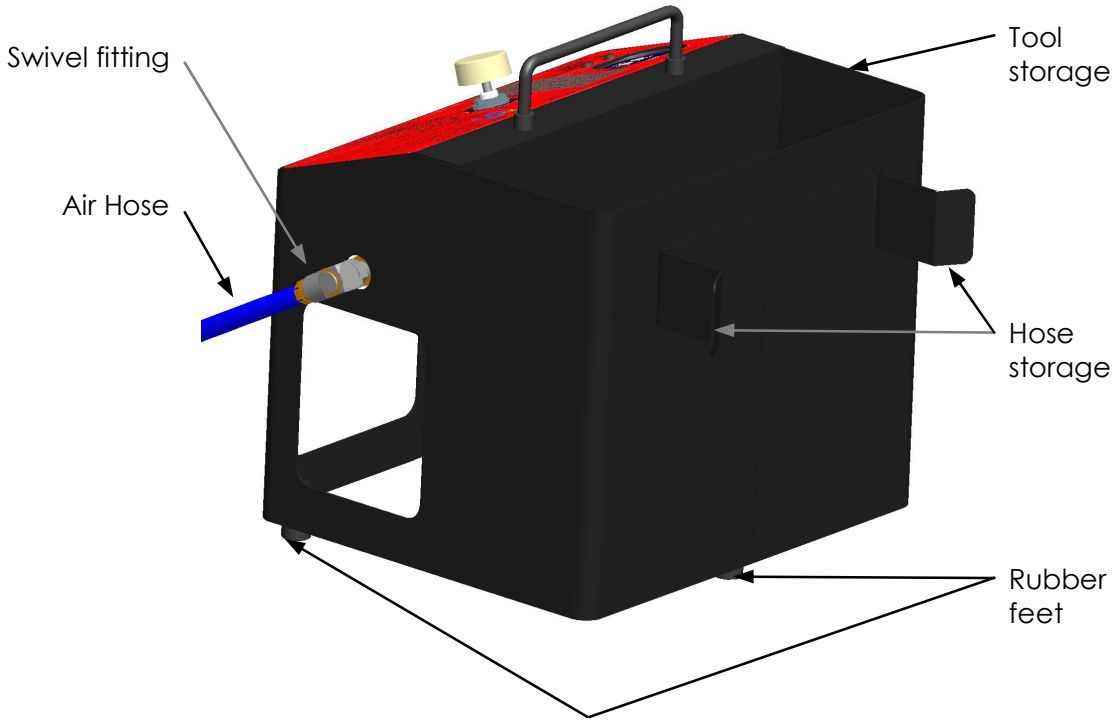

Figure 4 - BACK VIEW OF FRL

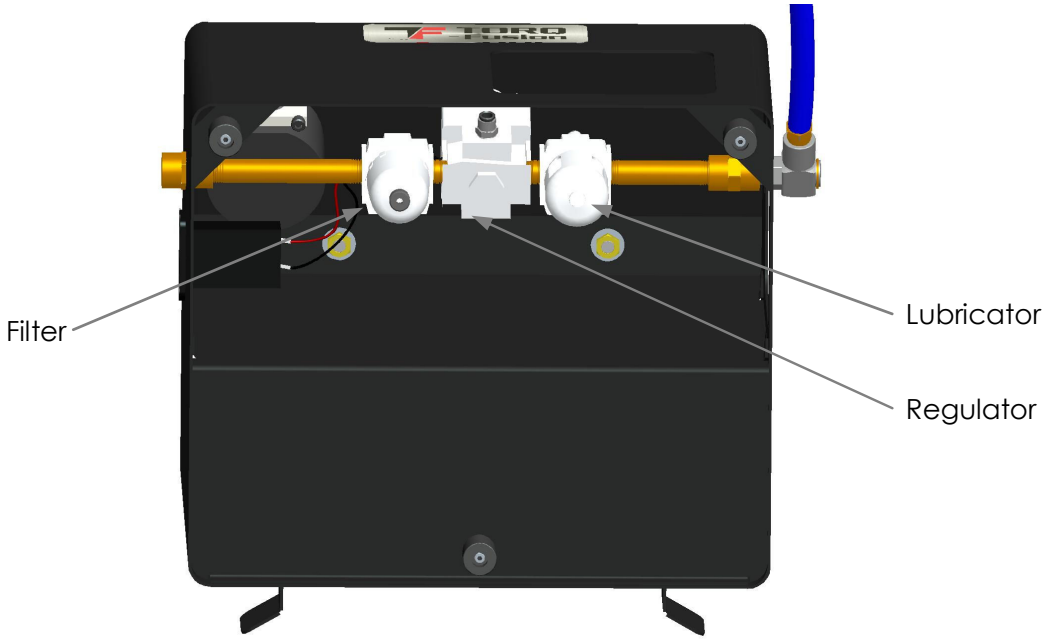

Figure 5 - BOTTOM VIEW OF FRL

INSTALLATION

Installation of this tool must be performed by personnel skilled and trained in the installation of pneumatic fittings.

The air supply will be connected to the FRL air inlet connection (see Figure 3) via a pneumatic hook-up hose (not supplied) with a minimum inside diameter of ½" or larger depending on the distance from the compressor to the FRL. It is the responsibility of the end user to ensure that a minimum air supply of 20 CFM @ 115 PSI is delivered to the inlet connection of the FRL. Regardless of hook-up hose size used, it must have a ½" MNPT fitting entering the FRL. The installation of a shut-off valve is also recommended upstream of the FRL.

Teflon tape must be used on the ½" MNPT fitting prior to installing it to the FRL – TORQ Fusion does not recommend the use of any other type of thread sealer. Proper torque for that size fitting must be applied (50-60 ft-lbs [68-81 N-m] is common practice). No backup wrench is required for installation as the FRL housing will perform that function.

Un-coil the hose supplied with the FRL and connect the free end to the swivel air connection at the base of the tool handle (see Figure 1). To engage the fittings simply push the female fitting into the male fitting while sliding back the knurled sleeve on the female fitting – this is performed easier with the system de-pressurized but it may also be done under pressure.

To ensure sufficient air flow is being supplied to the tool, set the FRL to the maximum pressure expected to be used – do not set FRL to a pressure higher than indicated on the torque chart. Install a socket onto the tool and use the tool to tighten a fastener until the tool stops turning; while still depressing the tool trigger check the digital pressure gauge on the FRL and ensure the pressure displayed is within 1 psi of the pressure set at the beginning of this paragraph. If the pressure drops more than 1 psi a larger pneumatic hook-up hose and/or compressor is needed.

The torque tool is now installed.

OPERATING INSTRUCTIONS

Before starting completely read this manual and ensuring all steps are understood. Any additional questions may be answered by contacting your sales representative or the factory by email at **info@torqfusion.com**.

Ensure that the serial number on the back of the tool (see Figure 2) matches the serial number on torque chart located on the FRL (see Figure 3).

Only ¾" or 1" impact sockets may be used with your torque tool, properly installed with locking pins and retainer ring (see Figure 9). The tool is normally supplied with a ¾" square output drive, unless a 1" square output drive was specified when purchased or purchased separately. To change the size of the square drive see **REMOVING AND INSTALLING THE OUTPUT DRIVE** section later in this manual.

Figure 6 - IMPACT SOCKET

A reaction arm is necessary for the operation of the tool in order to keep the gearbox housing from turning under extreme torque output conditions. While operating, the reaction arm must be resting against a robust stationary object (usually a nearby fastener) capable of withstanding a reaction force equal to the torque being generated by the tool. During operation the tool handle may be rotated with respect to the gearbox housing as not to transmit a reaction torque greater than a few foot pounds to the operator of the tool.

REMOVING AND INSTALLING THE TOOL EXTENSION

Your tool may be equipped with an optional extension depending on your application. The tool extension may be easily removed and re-installed for increased tool versatility. It can be installed in one of 8 positions on the spline of the gearbox housing (see Figure 7). To install remove the set-screw located on the tool extension using a 1/8" hex wrench. Slide out the tool extension retaining pin – if the retaining pin does not slide out easily, it may be pushed out with the 1/8" hex wrench. Ensure that the inside of the gearbox receptacle is well lubricated as shown using lithium or petroleum based grease. It is also a good practice to check the lubrication on the extension journal by sliding out the inner shaft of the extension – lubricate using lithium or petroleum based grease and re-insert the inner shaft into the extension housing. Fully engage the spline of the tool extension with the spline of the gearbox housing and insert the tool extension retaining pin. Replace the setscrew in the tool extension and re-tighten.

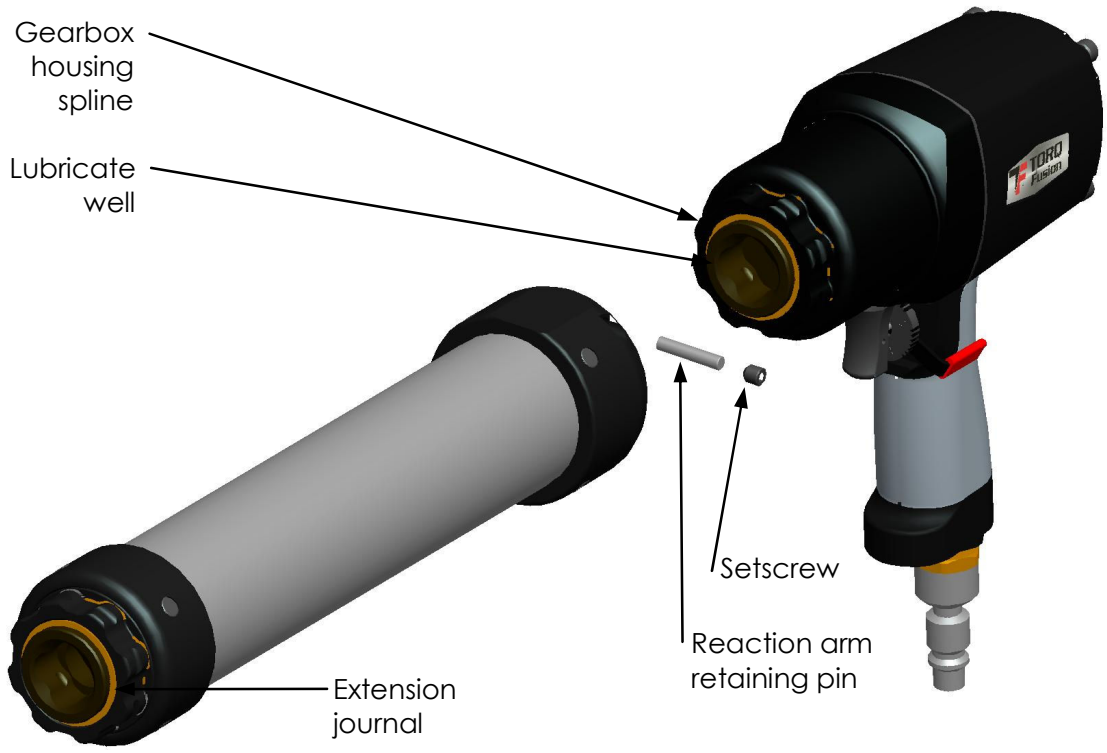

Figure 7 – TOOL EXTENSION INSTALLATION

To remove the tool extension, remove the set screw and tool extension retaining pin, then slide the extension off the gearbox. Be careful not to drop the inner shaft out of the assembly.

REMOVING AND INSTALLING THE REACTION ARM

The reaction arm may be installed in one of 8 positions on the spline of the gearbox housing (see Figure 8). To install remove the set-screw located on the reaction arm using a 1/8" hex wrench. Slide out the reaction arm retaining pin – if the retaining pin does not slide out easily, it may be pushed out with the 1/8" hex wrench. Ensure that the output drive journal is well lubricated as shown using lithium or petroleum based grease. Fully engage the spline of the reaction arm with the spline of the gearbox housing and insert the reaction arm retaining pin. Replace the setscrew in the reaction arm and re-tighten.

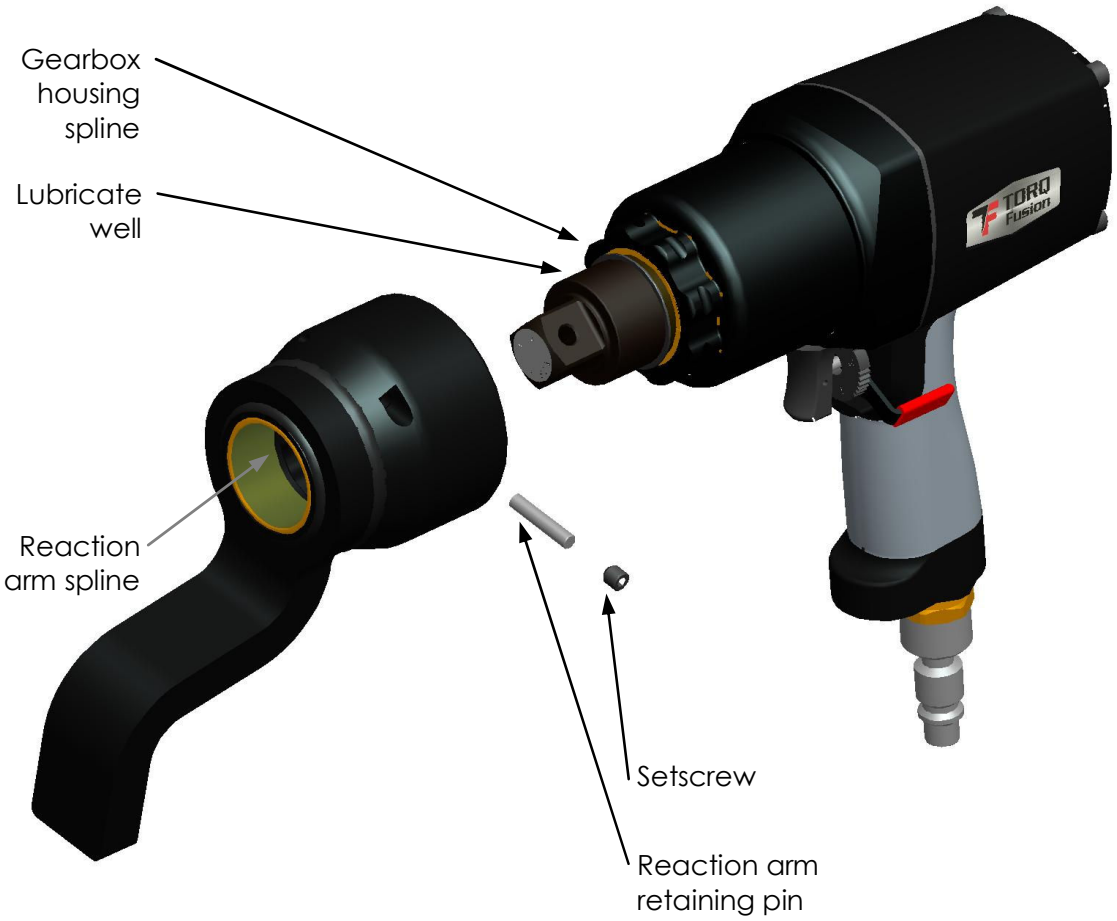

Figure 8 - REACTION ARM INSTALLATION

To remove the reaction arm, remove the set screw and reaction arm retaining pin, then slide the reaction arm off the gearbox.

REMOVING AND INSTALLING THE OUTPUT DRIVE

The output drive (square drive) of the torque wrench is designed to be field replaceable by the operator. Some of the reasons for changing the output drive could be replacing the standard ¾" square drive with the optional 1" square drive, replacing a broken output drive or replacing the standard output drive with a custom output drive. Regardless of the reason for replacing the output drive, it's as easy as removing one set screw.

Start by removing the reaction arm – see "REMOVING AND INSTALLING THE REACTION ARM" in the previous pages. Continue by simply pulling the square drive out.

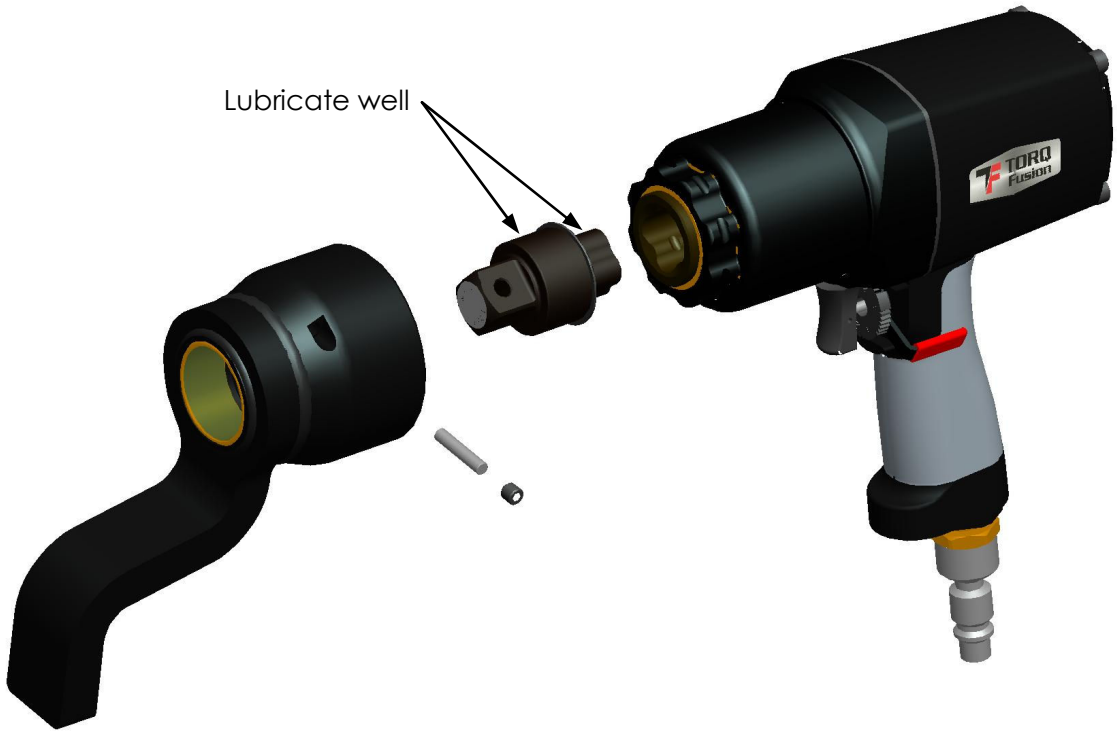

Figure 9 – OUTPUT DRIVE INSTALLATION

If removing a broken output drive the part should just slide out – if it doesn't, a pair of pliers or screw driver may be used.

To re-install an output drive, first lubricate the output drive journal and quadrilobe areas as shown using a lithium or petroleum based grease, engage output drive to gearbox and replace reaction arm - see "REMOVING AND INSTALLING THE REACTION ARM" in the previous pages.

INSTALLING THE IMPACT SOCKET

Only impact sockets must be used with your torque tool. They must be properly installed with locking pins and retainer ring. The output drive of your tool may be either ¾" or 1" depending on how the tool was ordered or what additional accessories were purchased with it.

First slide the retainer ring (o-ring) over the socket as shown in Figure 10.

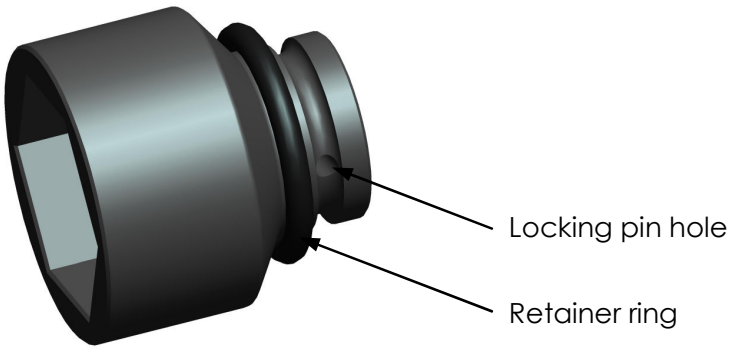

Figure 10 - IMPACT SOCKET

Place the socket over the torque tool output drive (square drive) aligning the locking pin hole with the hole in the output drive. Slide in the locking pin (see Figure 11).

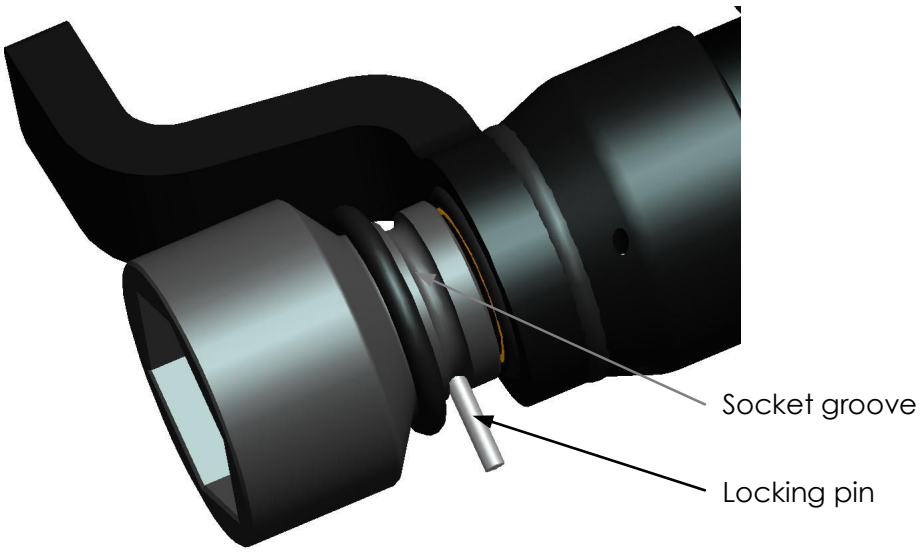

Figure 11 - SOCKET INSTALLATION

Finish the socket installation by rolling the retainer ring into the socket groove to keep the locking pin in place.

DETERMINING THE SET PRESSURE

The GT1300PSS is capable of operating under a wide range of pressures, not exceeding 100 PSI. The toque output of the tool will increase as the pressure on the FRL is set to higher values.

Based on the size and application of the fastener being tightened, determine the appropriate torque required. Correlate the required torque to the operating pressure by looking at the torque chart located on the FRL (see Figure 3). The torque chart lists pressure values in increments of 5 PSI. For most applications if you cannot find the exact torque value on your chart, the closest value will do – if more precise values are needed use one of the formulas on the next page to calculate the set pressure.

The chart below is a sample of what the torque chart on your FRL might look like. DO NOT use these values to set the pressure for your tool, instead use the values on the chart provided with your FRL.

FOR USE ONLY WITH:
GT800PSS S/N 1101005

IMPERIAL		METRIC	
PSI	ft-lbs	Bar	N-m
10	167	0.69	226
15	203	1.03	275
20	239	1.38	324
25	275	1.72	373
30	311	2.07	422
35	348	2.41	471
40	384	2.76	520
45	420	3.10	569
50	456	3.45	618
55	492	3.79	667
60	528	4.14	716
65	564	4.48	765
70	600	4.83	814
75	636	5.17	863
80	673	5.52	912
85	709	5.86	961
90	745	6.21	1010
95	781	6.55	1059
100	817	6.89	1108

LAST CALIBRATED MAR 20, 2011

Figure 12 - SAMPLE TORQUE CHART

LINEAR INTERPOLATION

Intermediate (interpolated) values may be calculated using linear interpolation in order to maintain a high level of accuracy for your tool.

Example: To set the tool at 650 ft-lbs when that value is not listed on your chart use the following formula to determine the set pressure for the FRL:

$$P = P_{above} + (T - T_{above}) \times \frac{P_{below} - P_{above}}{T_{below} - T_{above}} = 75 + (650 - 636) \times \frac{80 - 75}{673 - 636} \approx 76.9\,psi$$

Where:

P = set pressure for FRL

T = torque to achieve

FOR USE ONLY WITH:
GT800PSS S/N 1101005

IMPERIAL		METRIC	
PSI	ft-lbs	Bar	N-m
10	167	0.69	226
15	203	1.03	275
20	239	1.38	324
25	275	1.72	373
30	311	2.07	422
35	348	2.41	471
40	384	2.76	520
45	420	3.10	569
50	456	3.45	618
55	492	3.79	667
60	528	4.14	716
65	564	4.48	765
70	600	4.83	814
75	636	5.17	863
80	673	5.52	912
85	709	5.86	961
90	745	6.21	1010
95	781	6.55	1059
100	817	6.89	1108

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P_{above}

P_{below}

T_{above}

650 would fall between these lines

T_{below}

Figure 13 - CHART FOR INTERPOLATION EXAMPLE

A simpler but less accurate formula may also be used:

$$P = \frac{T}{T_{above}} \times P_{above} = \frac{650}{636} \times 75 \approx 76.7\,psi$$

ADJUSTING THE SET PRESSURE

Once the appropriate set pressure has been determined from the torque chart and/or by using the information in the previous sections, power on the pressure gauge and turn the air pressure adjustment knob (see Figure 12) until the set pressure is achieved. Always turn the knob **clockwise** to the set pressure. If the pressure is too great turn the knob counter-clockwise until below set pressure and then clockwise back up to set pressure.

⚠ Always make sure that the units displayed on the digital pressure gauge match the units on the torque chart.

⚠ The motor must **not** be running while setting the pressure.

The tool may or may not be engaged with the fastener to be tightened while adjusting the set pressure.

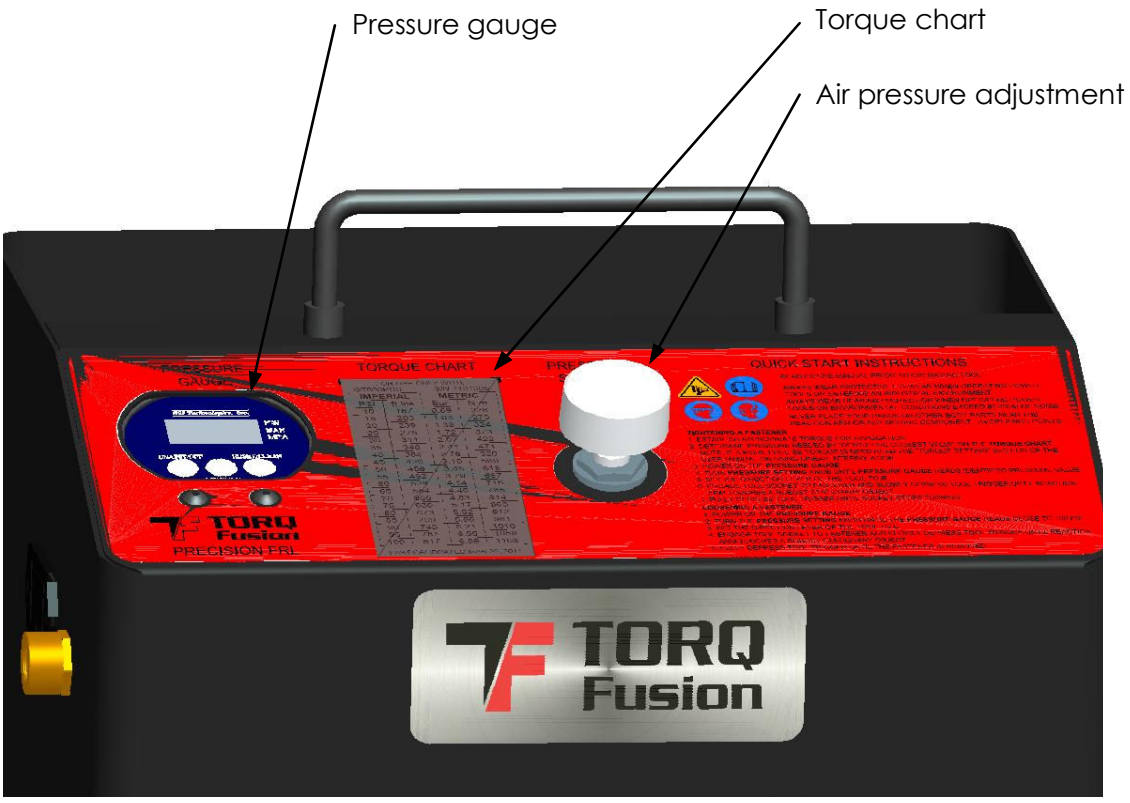

Figure 14 - PRESSURE SETTING

TIGHTENING

Once the reaction arm and appropriate size impact socket have been installed and the correct pressure for your application has been set, you are ready to tighten your fastener. Depending on your application, you may be required to use lubrication on the nut being tightened and a backup wrench on the nut on the opposite end of the stud – please consult the instructions supplied by the fastener manufacturer or the engineering instructions supplied for the project.

⚠ Be sure to wear appropriate PPE (Personal Protective Equipment) – please see the sections on "SAFETY" and "PPE" at the beginning of this manual. Never place your hands or other body parts near the reaction arm or any moving component.

Set the direction lever of the tool to "R". Place the impact socket over the fastener (see Figure 15). Slowly depress the tool trigger until the reaction arm touches a robust, stationary object like a nearby fastener or other similar metal feature (see Figure 16).

Remember that the gearbox and reaction arm assemblies can rotate with respect to the tool handle to accommodate the most favorable work angle for the tool.

Figure 15 - SOCKET OVER FASTENER

Figure 16 - REACTION ARM AGAINST NEARBY FASTENER

Fully depress trigger until socket stops turning. Once the socket stops do not depress the trigger again – doing so may increase the torque applied to the fastener by an undesirable amount. If necessary set the direction lever of the tool to "L" and depress the trigger slightly to ease in disengagement of socket.

LOOSENING

When loosening a fastener it is generally safe to use the maximum available torque. To do so power on the pressure gauge and turn the air pressure adjustment knob until the digital pressure gauge reads just under 100 PSI – do not exceed 100 PSI or the tool may be damaged and operator injury may occur.

⚠ Be sure to wear appropriate PPE (Personal Protective Equipment) – please see the sections on "SAFETY" and "PPE" at the beginning of this manual. Never place your hands or other body parts near the reaction arm or any moving component.

Set the direction lever of the tool to "L". Place the impact socket over the fastener (see Figure 17). Slowly depress the tool trigger until the reaction arm touches a robust, stationary object like a nearby fastener or other similar metal feature (see Figure 18).

Remember that the gearbox and reaction arm assemblies can rotate with respect to the tool handle to accommodate the most favorable work angle for the tool.

Figure 17 - SOCKET OVER FASTENER

Figure 18 - REACTION ARM AGAINST NEARBY FASTENER

Fully depress trigger until the fastener is removed.

BEST PRACTICES

Several steps should be taken when using the torque tool to maintain maximum torque accuracy:

1. If tool has not been used for a period of time, disconnect the FRI hose from the tool, add a few drops of tool oil (see the "TOOL SPECIFICATION" section of this manual) down the swivel air connection (see Figure 1), re-connect the hose and run it in either direction for a few seconds prior to engaging it to the application.
2. Never re-torque a fastener to the same setting – it will result in a higher than desired torque value. The tool is designed to achieve proper torque only in dynamic situations.

CARE AND MAINTENANCE

There is minimal maintenance required for your torque wrench.

Before performing maintenance please be sure to read and understand this manual in its entirety. If you still have questions please contact your sales representative or the factory directly.

TORQUE TOOL

The torque wrench is designed to generally be maintenance free for the duration of its life, however depending on the duty cycle and the environment in which it's used in, there may be a few parts requiring replacement.

The output drive has a limited life and after several thousand cycles at full load, may require replacement – please see the section entitled "REMOVING AND INSTALLING THE OUTPUT DRIVE" for further instructions. Lubricate periodically – see Figure 9.

With severe duty cycles the air motor may require its vanes replaced. We do not recommend this task be performed in the field as it requires a high level of experience with air motors and a re-calibration of the tool. Replacement vanes are available by contacting your sales representative or the factory. Improper installation of the motor vanes will void the warranty and may cause an incorrect torque output or the tool to malfunction.

The gearbox is lubricated for life and will not require additional grease to be added by the operator. After intensive use it may need to be rebuilt, but this can only be performed by the factory –

please contact your sales representative or the factory for additional information including cost.

FRL - CLEANING THE FILTER

The FRL unit contains a filter (see Figure 5) designed to protect the air motor from exposure to water particles or debris from the air line. The filter automatically drains the water collected in the bowl onto the floor every time the air supply is cycled on or off, therefore we recommend disconnecting the FRL unit from the air supply at least once a day, depending on the amount of moisture found in the air line.

Occasionally there might be some debris trapped by the filter which should be cleaned out every 6 months. To do so disconnect the air supply and eliminate any air left in the FRL by connecting the torque tool and pressing the trigger until the motor stops turning plus an additional 10 seconds to allow all the air to escape. Turn the FRL unit on its side, revealing the pneumatics inside (see Figure 5). Remove the filter bowl by unscrewing it. Empty out the contents of the bowl and wipe off any debris left on the white filter element (inside the FRL housing) before re-installing the filter bowl.

FRL - ADDING TOOL OIL

The lubricator mounted in the FRL unit ensures that the air supplied to the torque tool contains a fine mist of oil which lubricates the vanes of the air motor to prevent premature wear. As you can imagine running the torque tool while the lubricator bowl is empty will cause permanent damage to the motor and void the warranty. To prevent that from happening please check the oil level in the lubricator bowl by inspecting it thru one of the two large cutouts in the FRL housing (see Figure 3). The lubricator oil should be checked at least once a day – more often for high duty cycles. Under normal conditions a full bowl should last for a minimum of 1,000 cycles. Use only the recommended tool oil specified in the "TOOL SPECIFICATION" section of this manual. To add oil first disconnect the air supply and eliminate any air left in the FRL by connecting the torque tool and pressing the trigger until the motor stops turning plus an additional 10 seconds to allow all the air to escape. Unscrew the lubricator bowl, fill to the "MAX" mark on the bowl and screw the bowl back into the unit.

FRL – REPLACING THE BATTERY

The digital pressure gauge uses a standard 9V battery which will need to be replaced periodically. The battery drawer is located on the left side of the FRL housing, next to the air inlet connection (see Figure 3). To access the drawer a small screw driver will be required. Insert the tip of the screw driver in the notch of the battery drawer and push down to pry it open. Slide out the rawer and remove the old battery by pulling it out vertically. Insert the new battery (the battery can only fit one way to maintain correct polarity). Push in the battery drawer into the FRL housing until it clicks.

TOOL CALIBRATION

The torque tool is factory calibrated when initially sold, but in order to ensure accurate delivery of torque, a periodic re-calibration is required. TORQ Fusion recommends that the torque tool be calibrated at least once a year. Tools that are used at a higher duty cycle might require calibration every 6 months or at a different interval. Please consult with your sales representative or the factory for the appropriate interval.

The torque chart below is used to illustrate the information that is normally generated at the time of calibration.

FOR USE ONLY WITH:
GT800PSS S/N 1101005

IMPERIAL		METRIC	
PSI	ft-lbs	Bar	N-m
10	167	0.69	226
15	203	1.03	275
20	239	1.38	324
25	275	1.72	373
30	311	2.07	422
35	348	2.41	471
40	384	2.76	520
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55	492	3.79	667
60	528	4.14	716
65	564	4.48	765
70	600	4.83	814
75	636	5.17	863
80	673	5.52	912
85	709	5.86	961
90	745	6.21	1010
95	781	6.55	1059
100	817	6.89	1108

LAST CALIBRATED MAR 20, 2011

Figure 19 - SAMPLE TORQUE CHART

Please note that all torque charts will include the following information:

- Tool model number
- Tool serial number
- Pressure/Torque correlation values
- Calibration date

Calibration services are available by contacting your sales representative or the factory directly and should never be performed elsewhere.

TROUBLESHOOTING

If you experience problems while operating the torque tool, please use the chart below prior to contacting your sales representative or the factory.

PROBLEM	POSSIBLE CAUSE	ACTION
The tool doesn't run when trigger is pressed – the motor doesn't make any noise	1. Air supply not connected 2. Air supply hose has a kink or heavy object on it 3. Regulator is set on the minimum setting	1. Connect air supply 2. Remove kink/heavy object and replace hose if necessary 3. Check pressure by turning on the pressure gage
The tool doesn't run when trigger is pressed – the motor makes a hissing noise but the output drive doesn't turn	1. The tool is engaged with a fastener and has reached the max torque 2. The gearbox or motor are defective 3. The direction lever is incorrectly set	1. Remove tool from fastener and press trigger to ensure proper operation 2. Contact factory for repair 3. Move lever to either "R" or "L" positions
The tool makes an abnormal or irregular sound while running	1. The motor is not lubricated 2. The gearbox or motor are defective	1. Check lubricator level 2. Contact factory for repair
The pressure gauge does not power on	1. The battery is dead 2. The gauge is defective	1. Replace battery 2. Contact factory for repair
The motor sounds normal but the socket doesn't turn	1. The output drive is broken	1. Replace, contact factory for spare
The tool is not delivering desired torque	1. FRL air pressure may be adjusted incorrectly 2. There is insufficient air flow delivered to the FRL 3. Calibration not up to date 4. The gearbox or motor are defective	1. Read TORQUE SETTING section of this manual 2. See INSTALLATION section of this manual 3. Contact factory for calibration 4. Contact factory for repair

TOOL SPECIFICATION

Output Drive	1" SQ /w pin retainer[1]
Max Torque (@ 0 RPM)	1300 ft-lbs
Max Speed (no load)	8.5 RPM
Max Air Pressure	115 PSI[2]
Max Air Consumption	20 CFM[3]
Air Connection (@FRL)	½" FNPT
Max Noise Level	86 dB(A)[4]
Tool Weight (w/o reaction arm & output drive)	8.6 lbs
Reaction Arm Weight	2.9 lbs
1" Output Drive Weight	0.4 lbs
Optional 6" Tool Extension Weight	4.6 lbs
Optional 12" Tool Extension Weight	6.9 lbs
Optional 18" Tool Extension Weight	9.1 lbs
FRL Weight	13 lbs
FRL Battery	9V (PP3)
Tool Oil	Marvel Air Tool Oil (MMO80 or MMO085)[5]

[1] Tool may also be supplied with a ¾" square drive with pin retainer
[2] Never set FRL to a pressure higher than indicated on the torque chart
[3] To achieve maximum operating range of the tool air supply must be at least 20 CFM @ 115 psi
[4] Maximum noise level at 100 PSI without a load; noise levels under load are lower
[5] May be purchased from TORQ Fusion or directly from a distributor

PARTS & ACCESSORIES

Visit WWW.TORQFUSION.COM for more info

Standard ¾" Square Drive P/N 001-A-0053

Standard 1" Square Drive P/N 001-A-0054

6" Extension P/N 001-A-0044

12" Extension P/N 001-A-0043

18" Extension P/N 001-A-0038

Standard Reaction Arm P/N 001-F-0217

Reaction Arm Weld Blank P/N 001-F-0205

Accessory Mounting Kit P/N 001-A-0068

Pneumatic Tool Oil P/N 001-P-0120

DIMENSIONS

GT1300PSS

All dimensions in inches

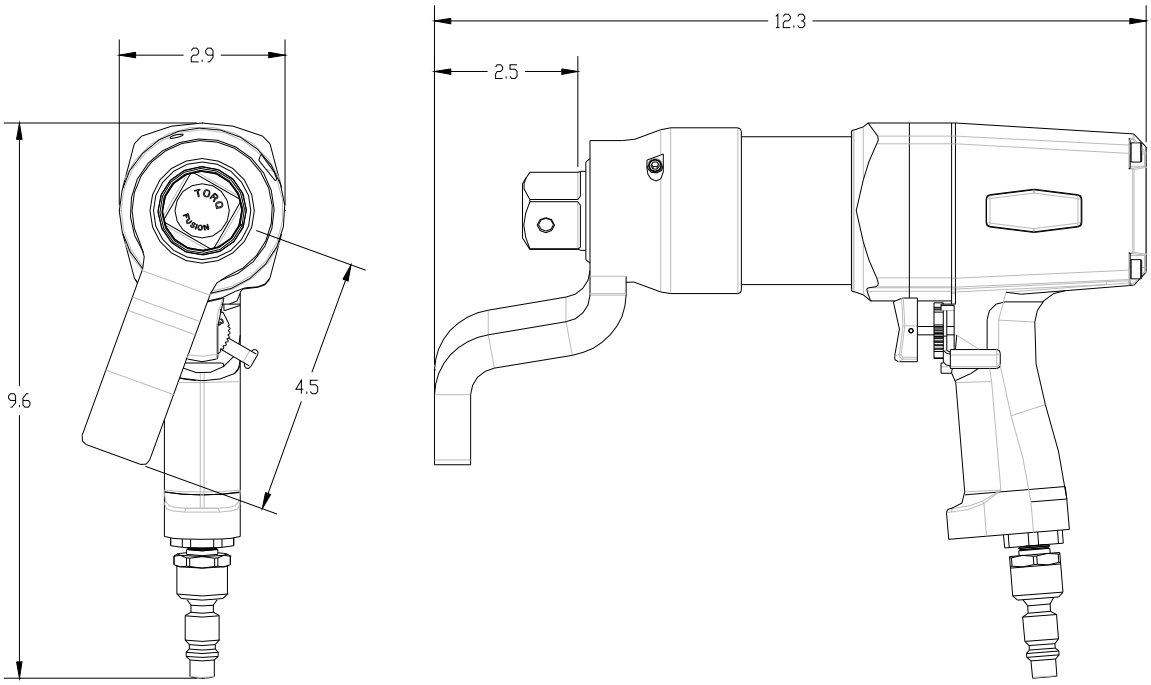

Figure 20 - GT1300PSS DIMENSIONS

FRL

All dimensions in inches

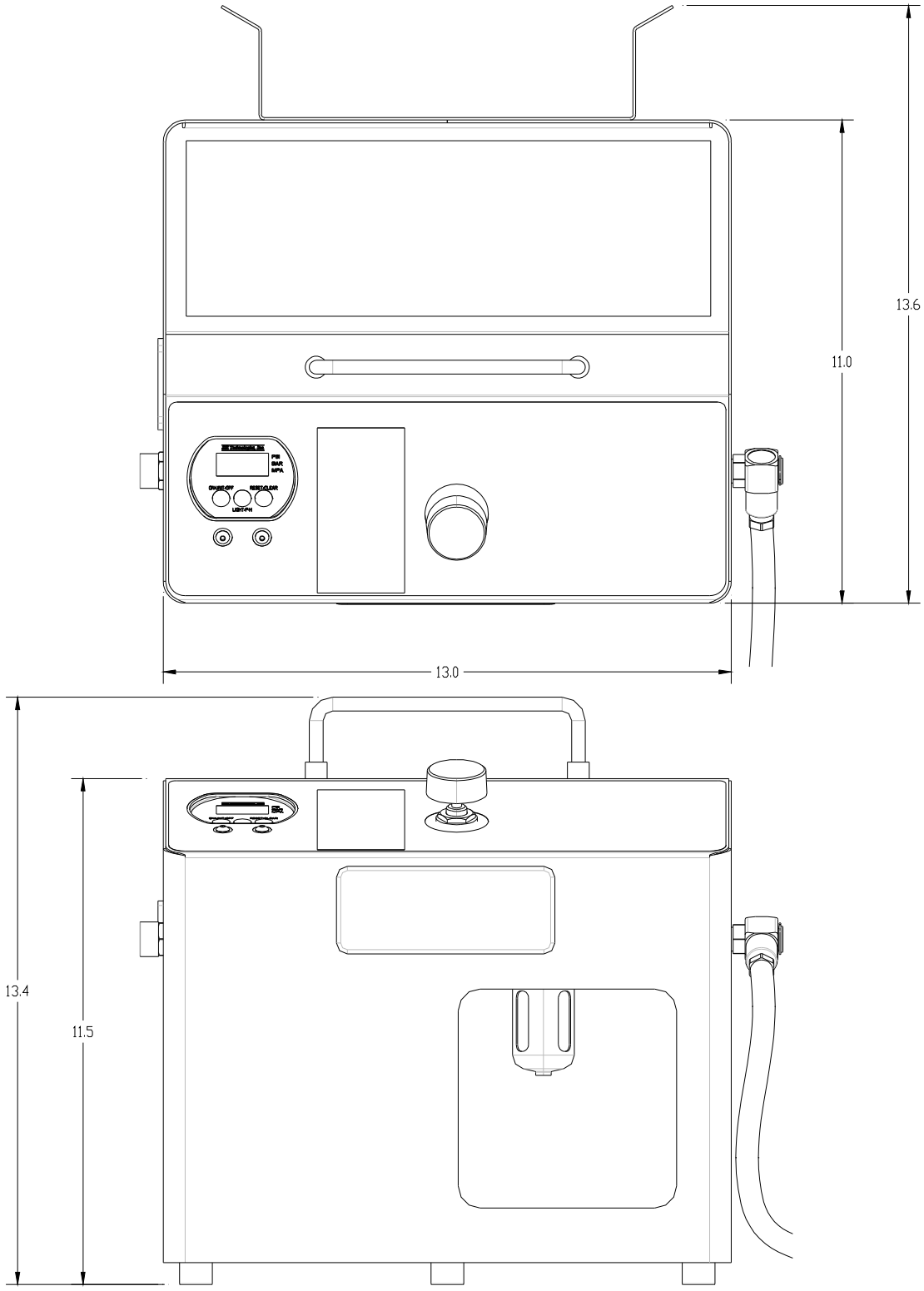

Figure 21 - FRL DIMENSIONS

TABLE OF FIGURES

Figure 1 - FRONT VIEW OF TOOL 7
Figure 2 - BACK VIEW OF TOOL 8
Figure 3 - FRONT VIEW OF FRL 9
Figure 4 - BACK VIEW OF FRL 10
Figure 5 - BOTTOM VIEW OF FRL 10
Figure 6 - IMPACT SOCKET 12
Figure 7 – TOOL EXTENSION INSTALLATION 13
Figure 8 - REACTION ARM INSTALLATION 14
Figure 9 – OUTPUT DRIVE INSTALLATION 15
Figure 10 - IMPACT SOCKET 16
Figure 11 - SOCKET INSTALLATION 16
Figure 12 - SAMPLE TORQUE CHART 17
Figure 13 - CHART FOR INTERPOLATION EXAMPLE 18
Figure 14 - PRESSURE SETTING 19
Figure 15 - SOCKET OVER FASTENER **Figure 16** - REACTION ARM AGAINST 20
Figure 17 - SOCKET OVER FASTENER **Figure 18** - REACTION ARM AGAINST 21
Figure 19 - SAMPLE TORQUE CHART 25
Figure 20 - GT1300PSS DIMENSIONS 28
Figure 21 - FRL DIMENSIONS 29

TOOL INFORMATION

DATE PURCHASED:_____

SERIAL NUMBER:_____

INITIAL CALIBRATION:_____

NEXT CALIBRATION:_____

NEXT CALIBRATION:_____

NEXT CALIBRATION:_____

NEXT CALIBRATION:_____

NEXT CALIBRATION:_____

NEXT CALIBRATION:_____

ASSET NUMBER:_____

OTHER:_____

NOTES:

User Manual p/n: 001-F-0257

Patents Pending

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